Shrink-Rite™

FOR SANFORIZERS

INDICATING CONTROLLER
MODEL 1605e

DYNAMIC SHRINKAGE CONTROL...

- ✓ MONITORS FABRIC CONDITION AT ENTRY... THEN SHRINKS IT!
- ✓ CUTS RESIDUAL SHRINKAGE VARIATION TO NEAR ZERO!
- ✓ GIVES YOU MORE FABRIC TO SELL!

Stop overshrinking now!

Measure, then shrink... it's called dynamic shrinkage control...

The benefits to both you and your customer are absolutely phenominal!

Your customer gets near zero residual shrinkage variation!

You get fabric right out of thin air... ready to sell!

And, it's inexpensive... the technology is already here! The rest is automatic!

STRANDBERG ENGINEERING LABORATORIES, INC.
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-GENERAL INFORMATION-

The case for automatically regulating the shrinkage set point on Sanforizers in response to the condition of the cloth at entry has been well established.

Customers are getting essentially constant pick counts with residual shrinkage varying no more than 0.5 down to 0.3 standard deviation.

That's not all! The mills are getting millions of yards and meters of free cloth right out of thin air at no cost, whatsoever.

For integrated finishing lines that include a Sanforizor at delivery, Shrink-Rite Model 1605e is available with two cloth-driven length encoders for location before and after the finishing zone. Stretch is computed to the nearest hundredth percent and is updated every several yards or meters. The Palmer Unit speed is then regulated to take out the undesired stretch and shrink the fabric a target amount.

For non-integrated lines with Sanforizing after finishing, the 1605e is available with a Type 6306 Pick Counter for location at entry to the Palmer Unit. The 1605e then applies just the right percentage of shrinkage to change the pick count at entry to a target value at delivery.

An important extra feature of the 1605e is its ability to monitor the moisture in the goods at entry to the rubber belt and automatically preset the atomizer water spray accordingly. Required components include a 6" or full-span moisture sensing roll and a Type 1035 Moisture-to-Computer Interface, which are available with the 1605e.

The 1605e is an advanced version of the world-class Strandberg Shrink-Rite, Model 1605, multi-item process controller for compressive shrinking machines. It is capable of monitoring and controlling many important variables at delivery, including final moisture, width, pick count, density, cooling can temperatures, and more.

Operator call up by style number assures reliable and precise control of residual shrinkage without concern on the part of operators or management.

Results are fabulous. Every tenth percent reduction in applied shrinkage **produces fabric out of thin air... ready for sale!** At 12 million yards or meters a year, that's **1,000 free yards or meters a month, every month!** Without controls, shrinking is always overdone. So, expect much more. Your customers will love you for giving them residual shrinkage they can depend upon.

The Shrink-Rite Model 1605e is powered to optimize your process. Start with the entry level system and **start giving your customers what they really want while you start adding to your bottom line today!**

-SPECIFICATIONS-

Power Requirements	155/230 volts a-c
Weights and Dimensions	12.0 lb (5.5 kg), 12.5" (318mm high), 10.9" (277mm) wide, and 6.25" (159mm) deep
Housing	Fiber-glass NEMA-4X
Fabric Density Sensor	Densitek I
Thread Count Sensor	Model 7762 and Type 6307 for picks per inch and centimeter
Fabric Width Sensor	Series 2400, sensing range from inside fringe selvage, accuracy 0.1 inch or centimeter
Fabric Moisture Sensor	6" or full-span rolls
Temperature Sensor	Type 5669 for steam and Type 6962 for fabric surface
Length Encoders	Surface or shaft-driven
Set Points and Tolerances	Hundredth percent (0.01%) steps for moisture, stretch and shrinkage; tenth unit (0.1) steps for fabric density, thread count, width, and temperature
Control Devices	Control Motors, Motorized Water Spray Valves, and Pneumatic Controllers, I/P
Display	Liquid Crystal, 4.8" x 3.5" (120 x 90mm) alternating measurements, as required
Outputs	Analog, 0-10 volts and 4-20 mA d-c, for connection to control devices, chart recorders and higher-level systems, relay closures for connection to control motors and external alarms, RS-232 printer output for alarms and reports, and RS-485 network port for connection to Model 2705 Operator Console
Pick Count Repeatability	Within one tenth thread per inch or centimeter
Stretch/Shrinkage Accuracy	Within 0.05%
Fabric Width Repeatability	Within 0.1 inch (2.5cm)
Fabric Moisture Repeatabilty	Within 0.5% of reading

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